

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/305,892 05/05/99 DALLMIER

A 5244-D1

IM62/0705

ROBERT A MILLER  
PATENT & LICENSING DEPARTMENT  
NALCO CHEMICAL COMPANY  
ONE NALCO CENTER  
NAPERVILLE IL 60563-1198

EXAMINER

MORRISON, B

ART UNIT	PAPER NUMBER
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1724

9

DATE MAILED:

07/05/00

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

**Notice of Allowability**

Application No. 09/305,892	Applicant(s) Dallmier et al.
Examiner Betsey Morrison Hoey	Group Art Unit 1724



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

This communication is responsive to terminal disclaimer filed June 19, 2000

The allowed claim(s) is/are 15-21 and 23 (renumbered as 1-8)

The drawings filed on \_\_\_\_\_ are acceptable.

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

Applicant MUST submit NEW FORMAL DRAWINGS

because the originally filed drawings were declared by applicant to be informal.

including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_.

including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

**Attachment(s)**

- Notice of References Cited, PTO-892
- Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_
- Notice of Draftsperson's Patent Drawing Review, PTO-948
- Notice of Informal Patent Application, PTO-152
- Interview Summary, PTO-413
- Examiner's Amendment/Comment
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- Examiner's Statement of Reasons for Allowance

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1. Claims 15-21 and 23 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claim 15 is allowed because the prior art of record fails to teach, disclose, or fairly suggest a method for laundering soiled garments using a bleaching agent comprising a stabilized aqueous alkali or alkaline earth metal hypobromite solution, wherein the solution is prepared by mixing an aqueous solution of alkali or alkaline earth metal hypochlorite with a water soluble bromide source to form an unstabilized alkali or alkaline earth metal hypobromite, and then adding a stabilizer and recovering stabilized aqueous alkali or alkaline earth metal hypobromite solution.

Claim 16 is allowed because the prior art of record fails to teach, disclose, or fairly suggest a method for manufacturing cellulosic materials by bleaching the cellulosic fibers with an oxidizing agent, wherein the oxidizing agent comprises a stabilized aqueous alkali or alkaline earth metal hypobromite solution, wherein the solution is prepared by mixing an aqueous solution of alkali or alkaline earth metal hypochlorite with a water soluble bromide source to form an unstabilized alkali or alkaline earth metal hypobromite, and then adding a stabilizer and recovering stabilized aqueous alkali or alkaline earth metal hypobromite solution.

Claim 17 is allowed because the prior art of record fails to teach, disclose, or fairly suggest a method for controlling microbiofouling in recreational water systems by adding an oxidizing agent comprising a stabilized aqueous alkali or alkaline earth metal hypobromite solution, wherein the solution is prepared by mixing an aqueous solution of alkali or alkaline earth

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metal hypochlorite with a water soluble bromide source to form an unstabilized alkali or alkaline earth metal hypobromite, and then adding a stabilizer and recovering stabilized aqueous alkali or alkaline earth metal hypobromite solution.

Claim 18 is allowed because the prior art of record fails to teach, disclose, or fairly suggest a method for controlling microbiofouling on equipment in contact with produced oil field waters using a stabilized aqueous alkali or alkaline earth metal hypobromite solution, wherein the solution is prepared by mixing an aqueous solution of alkali or alkaline earth metal hypochlorite with a water soluble bromide source to form an unstabilized alkali or alkaline earth metal hypobromite, and then adding a stabilizer and recovering stabilized aqueous alkali or alkaline earth metal hypobromite solution.

Claim 19 is allowed because the prior art of record fails to teach, disclose, or fairly suggest a method for controlling microbiofouling in aqueous systems using a stabilized aqueous alkali or alkaline earth metal hypobromite solution, wherein the solution is prepared by mixing an aqueous solution of alkali or alkaline earth metal hypochlorite with a water soluble bromide source to form an unstabilized alkali or alkaline earth metal hypobromite, and then adding a stabilizer and recovering stabilized aqueous alkali or alkaline earth metal hypobromite solution.

Claims 20, 21 and 23 are allowed because the prior art of record fails to teach, disclose, or fairly suggest a method for controlling microbiofouling on equipment in contact with industrial water systems using a stabilized hypobromite solution, wherein the solution is prepared by mixing an aqueous solution of alkali or alkaline earth metal hypochlorite with a water soluble bromide

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source to form an unstabilized alkali or alkaline earth metal hypobromite, and then adding a stabilizer and recovering stabilized aqueous alkali or alkaline earth metal hypobromite solution.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betsey Hoey whose telephone number is (703) 305-3934. The examiner can normally be reached on Monday through Thursday from 8:30 AM to 6:00 PM, and on alternate Fridays from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Simmons, can be reached at (703) 308-1972. The fax phone number for official after final faxes for this Group is (703)305-3599, for all other official faxes the number is (703)305-7718, and for unofficial faxes the number is (703) 305-3602.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

*BMH*  
B. Morrison Hoey  
June 29, 2000

DUANE SMITH  
PRIMARY EXAMINER

*D-114*  
7-3-00



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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NOTICE OF ALLOWANCE AND ISSUE FEE DUE

TM62/0705

ROBERT A MILLER  
PATENT & LICENSING DEPARTMENT  
NALCO CHEMICAL COMPANY  
ONE NALCO CENTER  
NAPERVILLE IL 60563-1198

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
09/305,892	05/05/99	008	MORRISON, B	1724 07/05/00
First Named Applicant	DALLMIER,	35 USC 154(b) term ext.	=	0 Days.
TITLE OF INVENTION	PROCESS TO MANUFACTURE STABILIZED ALKALI OR ALKALINE EARTH METAL HYPOBROMITE AND USES THEREOF IN WATER TREATMENT TO CONTROL MICROBIAL FOULING			
ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY FEE DUE DATE DUE
0 5244-D1	210-754.000	095	UTILITY	NO \$1210.00 10/05/00

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

- I. Review the SMALL ENTITY status shown above.  
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
  - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
  - B. If the status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
  - A. Pay FEE DUE shown above, or
  - B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.  
Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

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